

FIG. 1

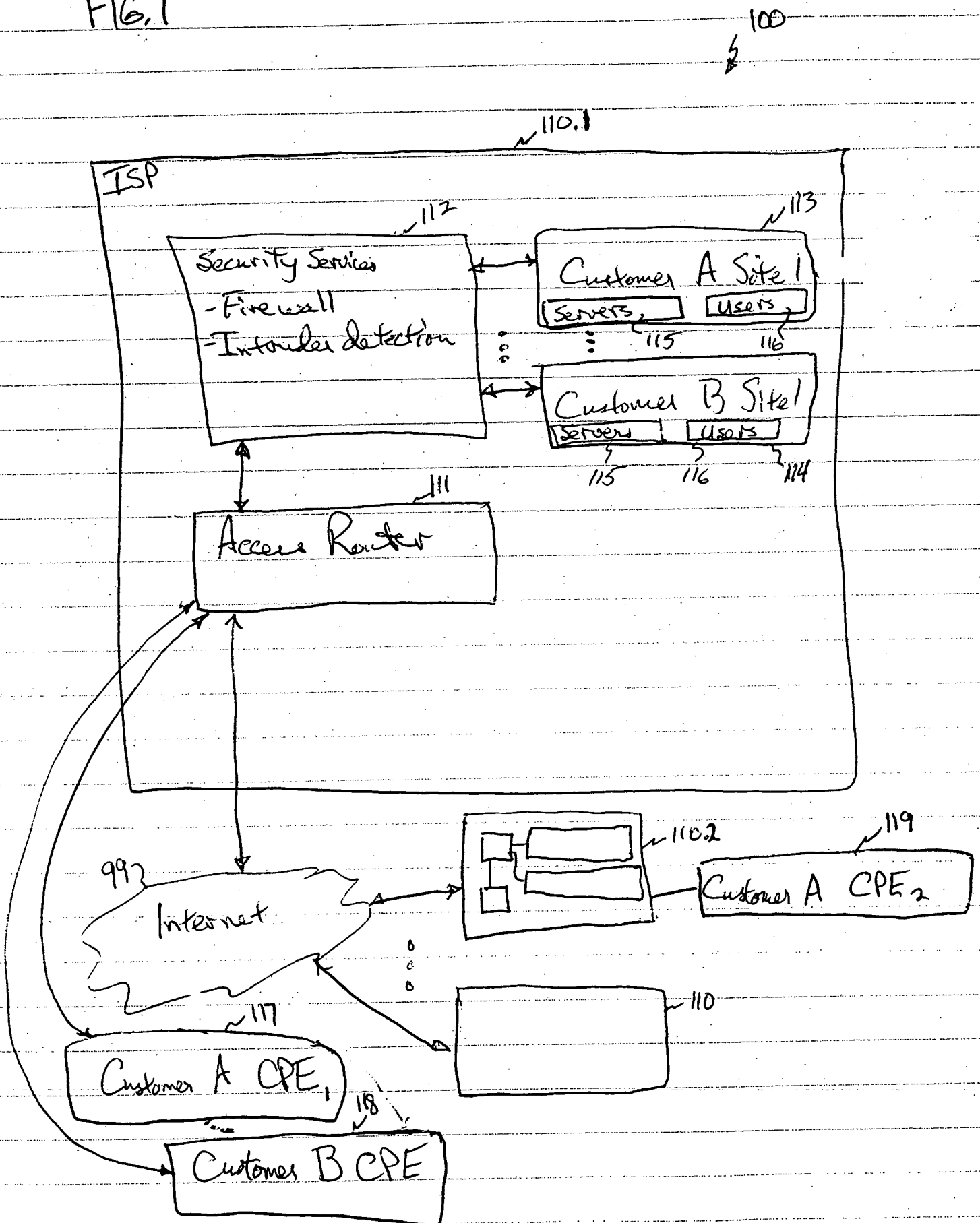
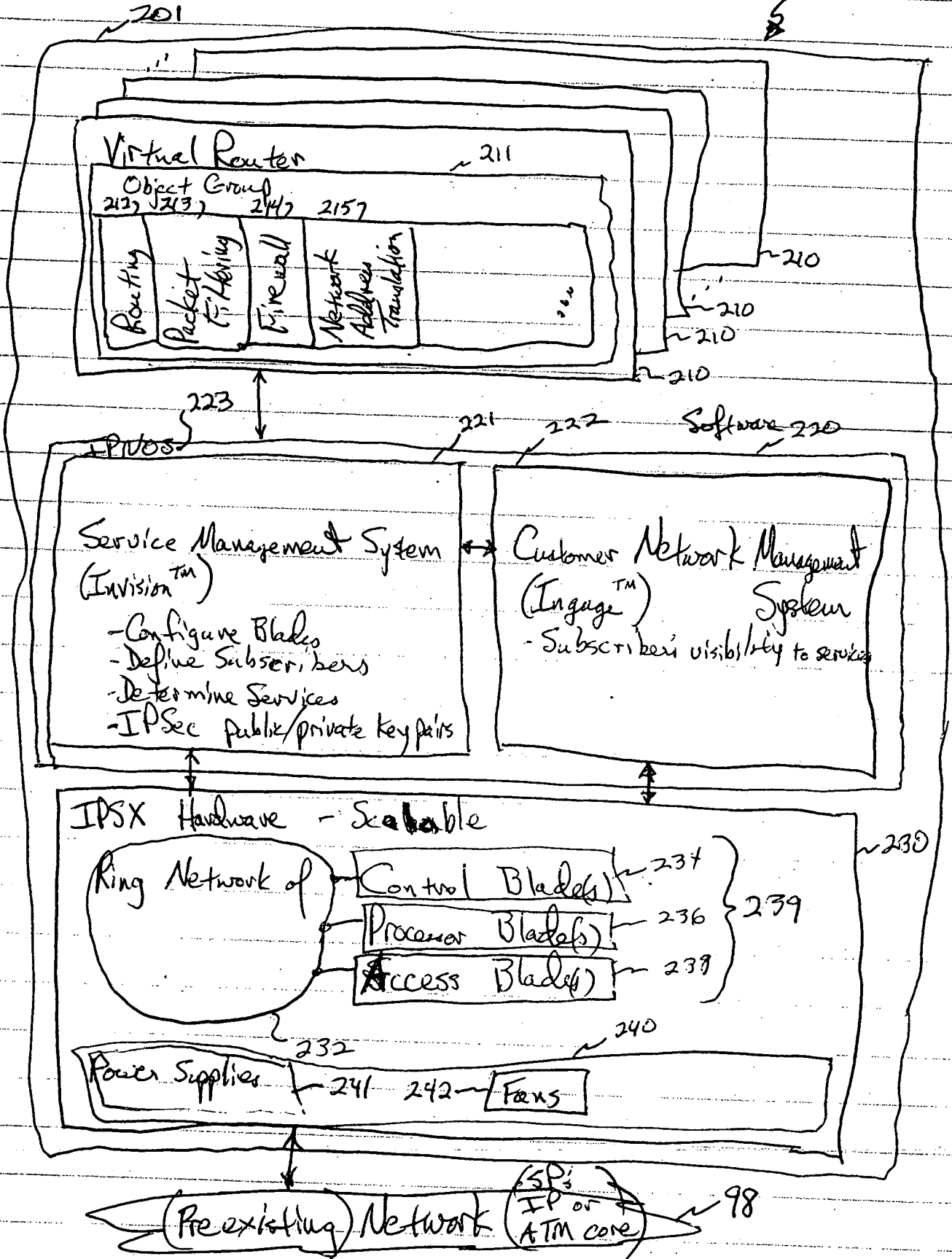


FIG. 2

SP Network 200



000000-00000000

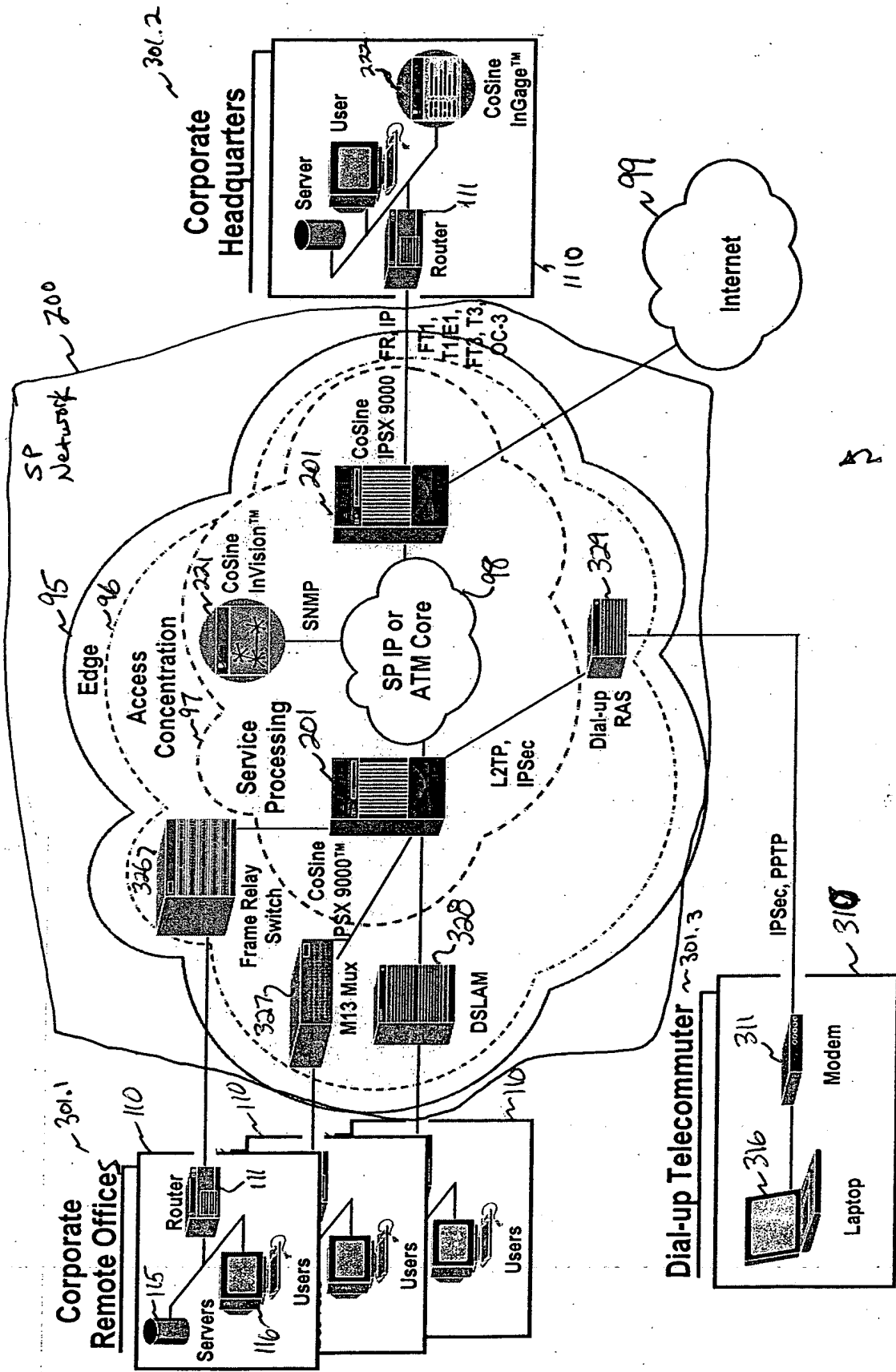
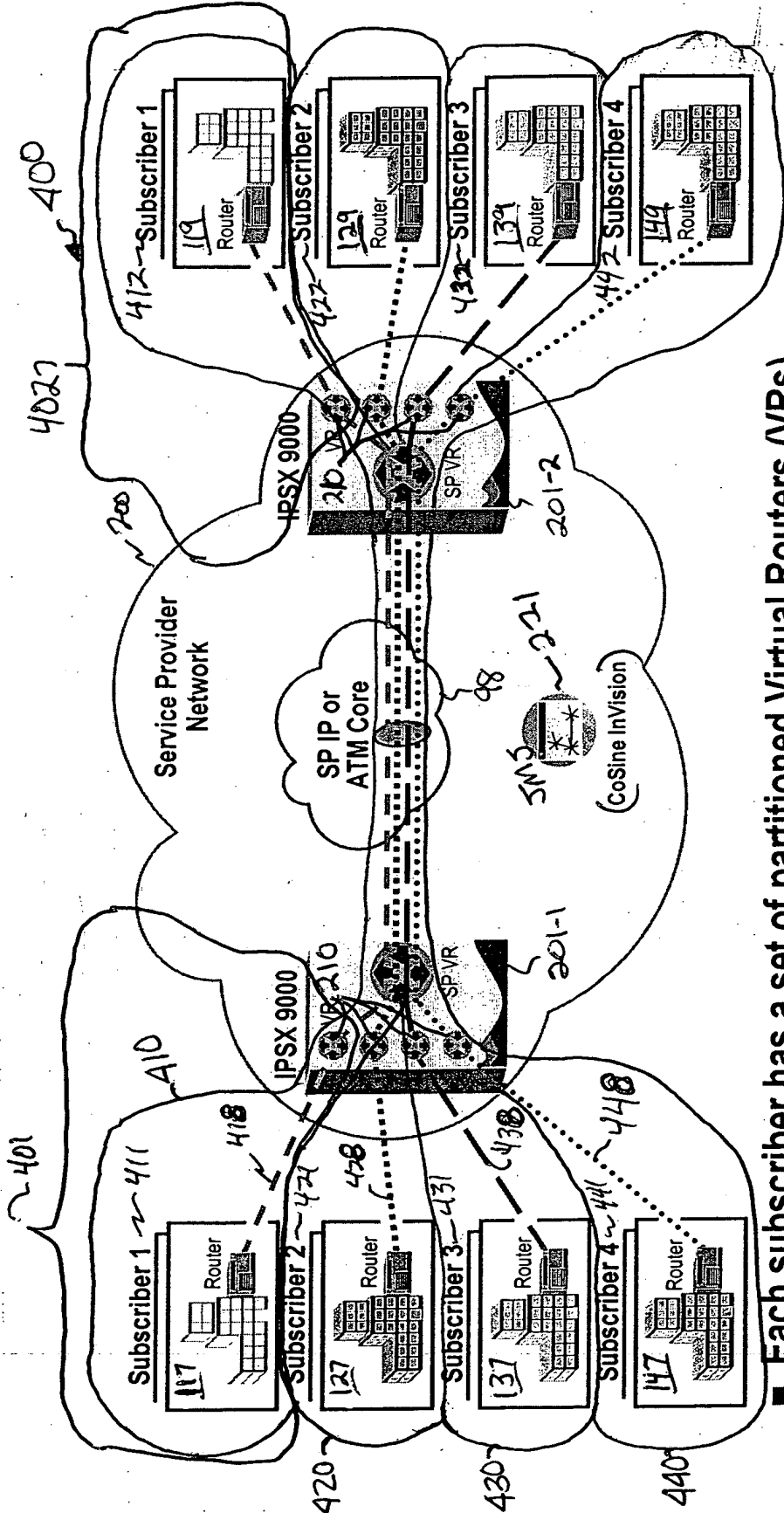
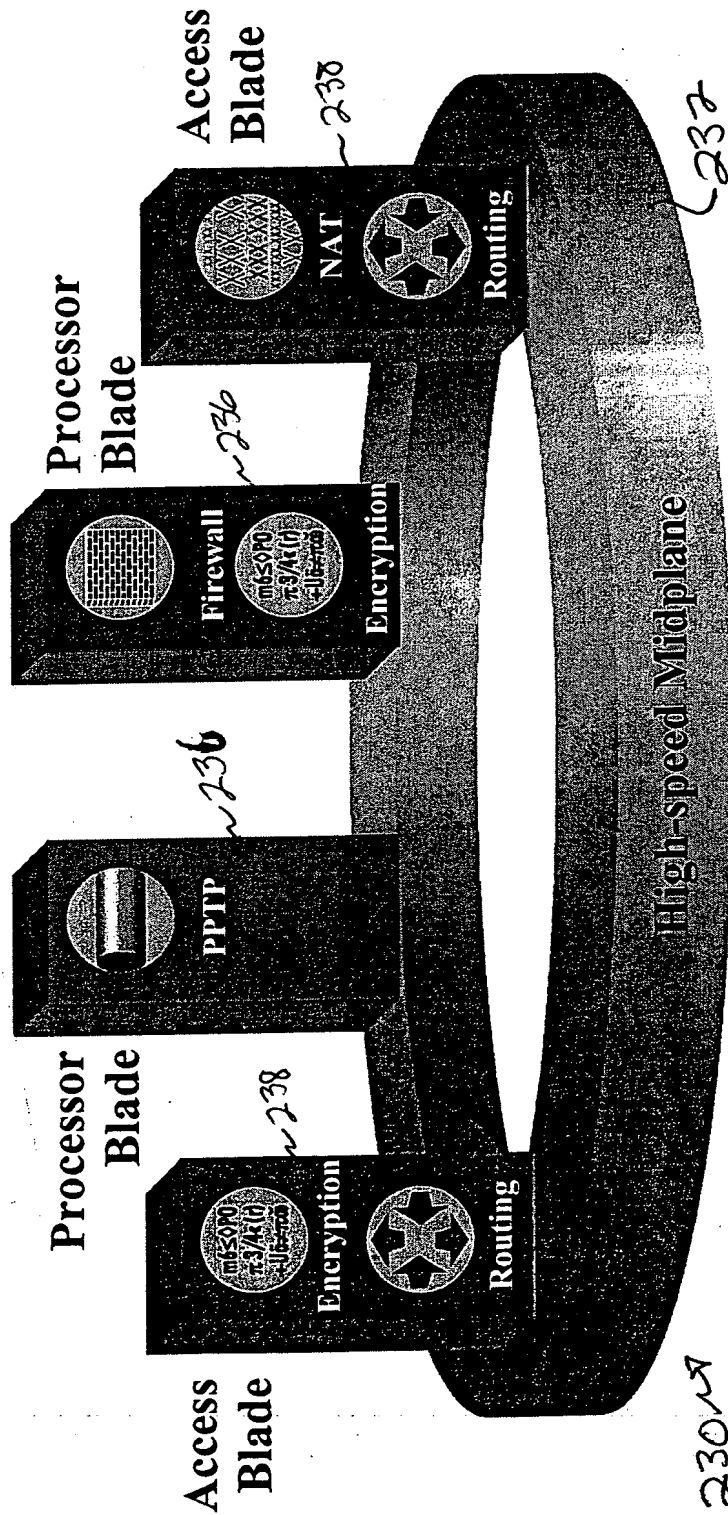


FIG. 3



- Each subscriber has a set of partitioned Virtual Routers (VRs)
- Each VR is the equivalent of an independent hardware router
- VR as an object group enables customized services per subscriber
- InVision allows ease of service provisioning and maintenance of services across all IPSX units in a SP network
- IP Network Operating System's (IPNOS) open Application Program Interface (API) enables new services to be continually added to the platform

Fig. 4



- Each subscriber has a set of partitioned Virtual Routers (VRs) <sup>210</sup>
- Each VR is the equivalent of an independent hardware router
- VR as an object group enables customized services per subscriber
- InVision <sup>220</sup> allows ease of service provisioning and maintenance of services across all IPSX units in a SP network <sup>200</sup>
- IP Network Operating System's (IPNOS) <sup>220</sup> open Application Program Interface (API) enables new services to be continually added to the platform

FIG. 5





## Hardware:

- ▼ 26-slot, two-sided chassis ~ 831
- ▼ 22 Gbps packet ring midplane ~ 832
- ▼ Three types of Service Blades ~ 239
  - Control ~ 234
  - Access ~ 238
  - Processor ~ 236
- ▼ Specialized processing Daughter Cards for Service Blades
- ▼ Power supply system ~ 240

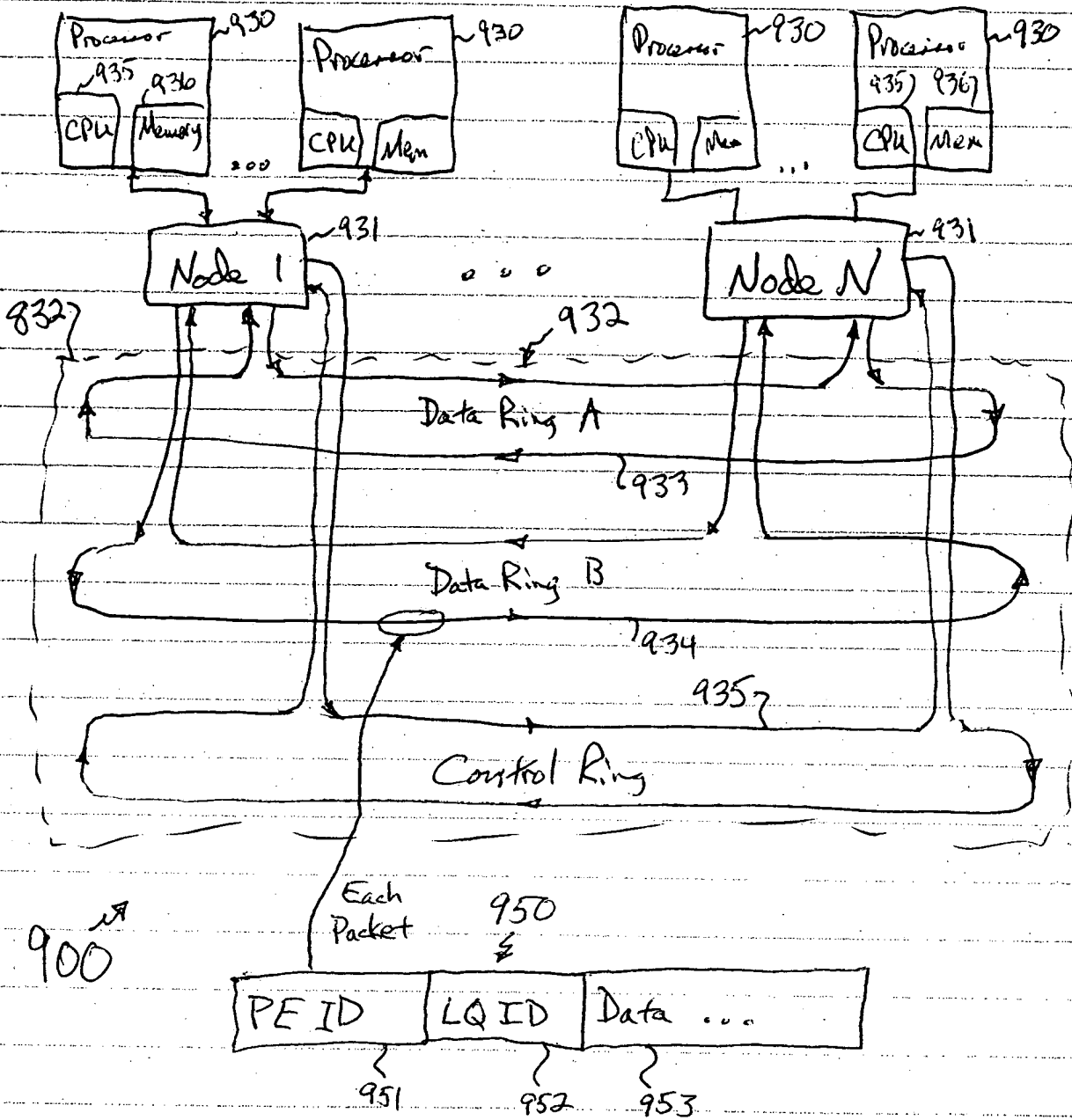
## Software

- ▼ IP Network Operating System (IPNOS) ~ 223
- ▼ Virtual Routing ~ 810
- ▼ IP Service Suite ~ 820
  - IPSec (Dial and Dedicated) ~ 821
  - Application Proxy Firewall ~ 822
  - Network Address Translation (NAT) ~ 823
  - PPTP Tunnel Termination ~ 824
  - Bandwidth Management ~ 825
  - Multiprotocol Label Switching (MPLS)
  - Frame Relay to IPsec Interworking ~ 827

FIG. 8



FIG. 9



1000A

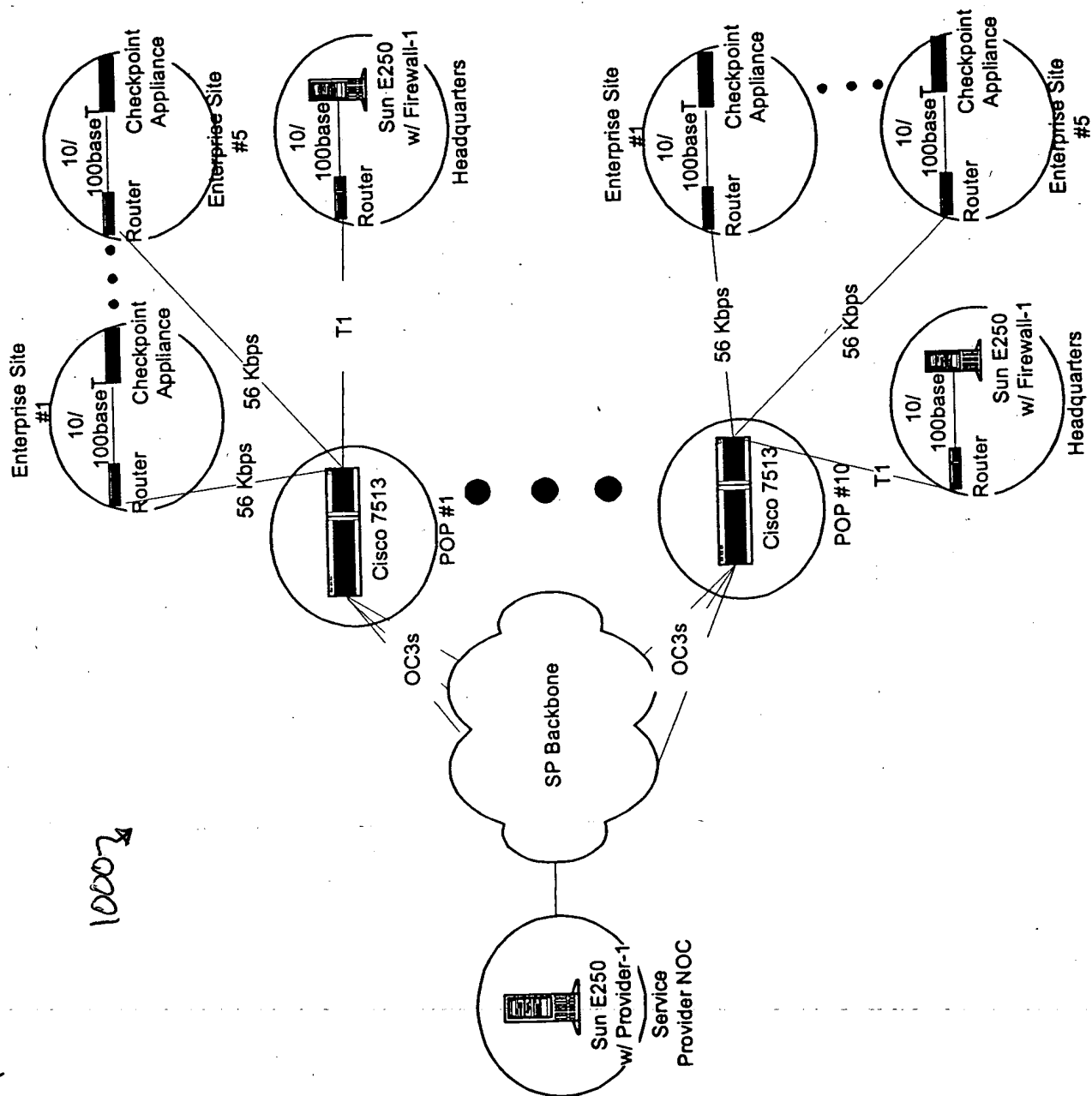
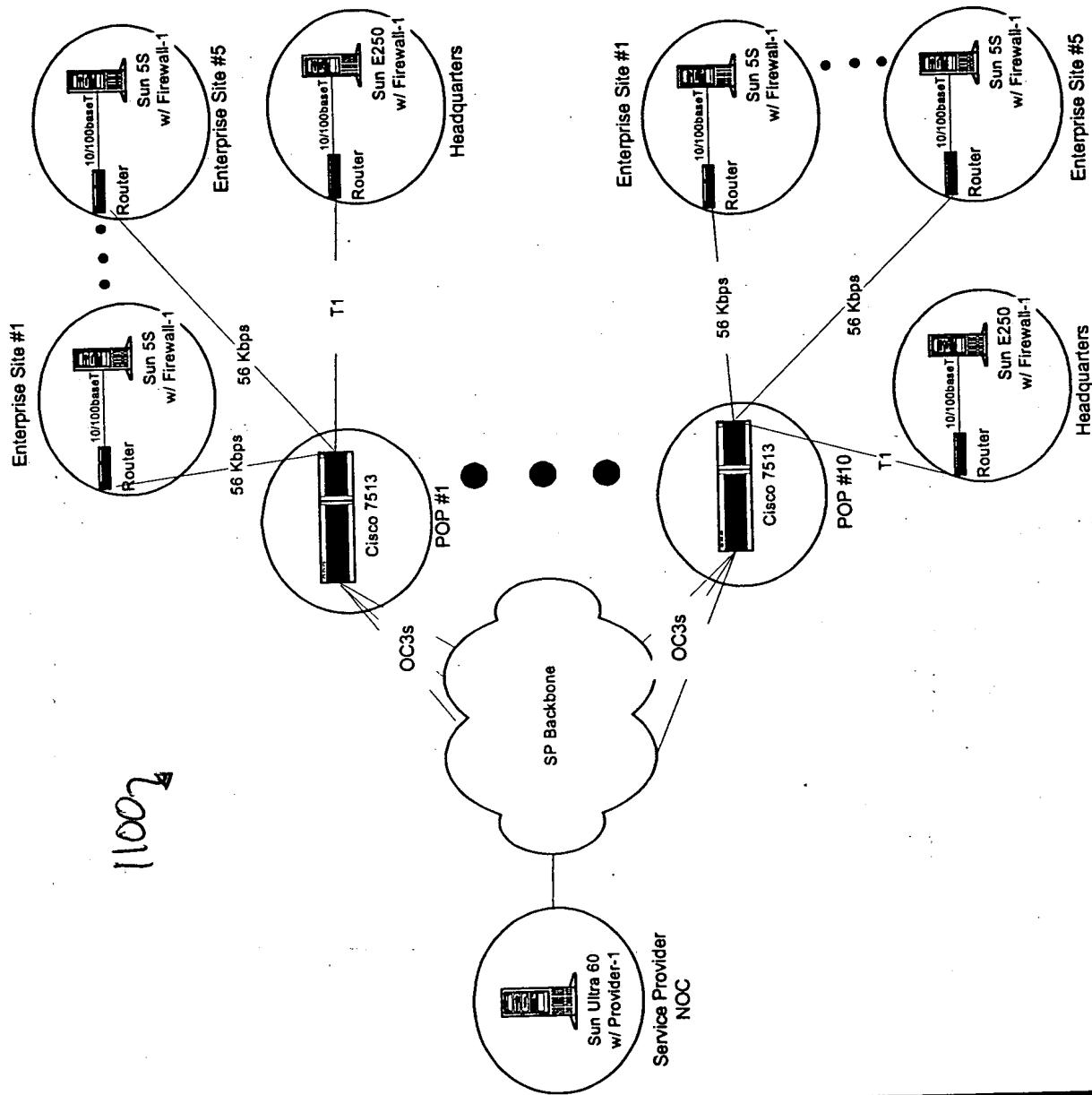


FIG. 11



006 P00 22315500

FIG. 12

120074

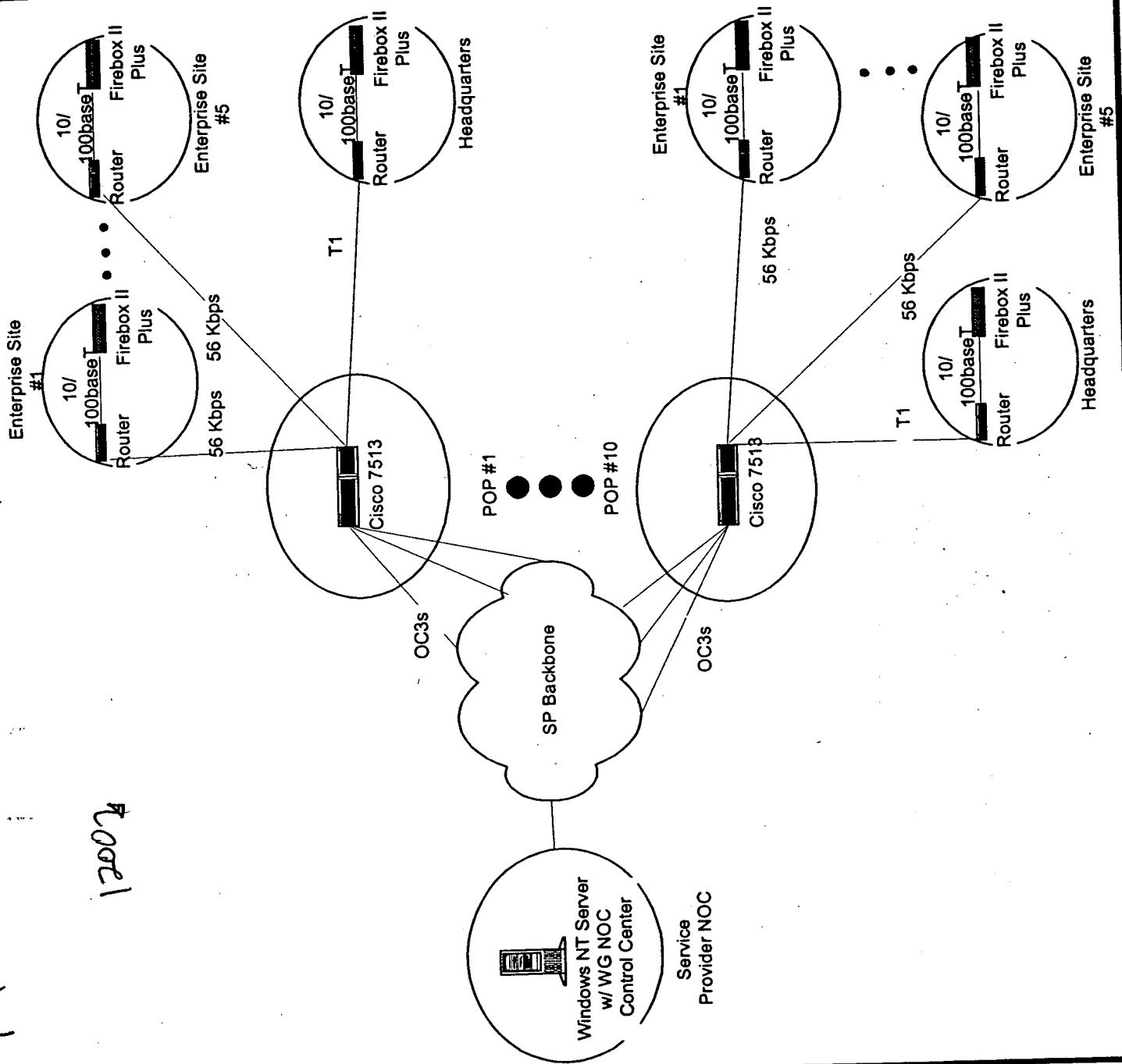


FIG. 13

13002

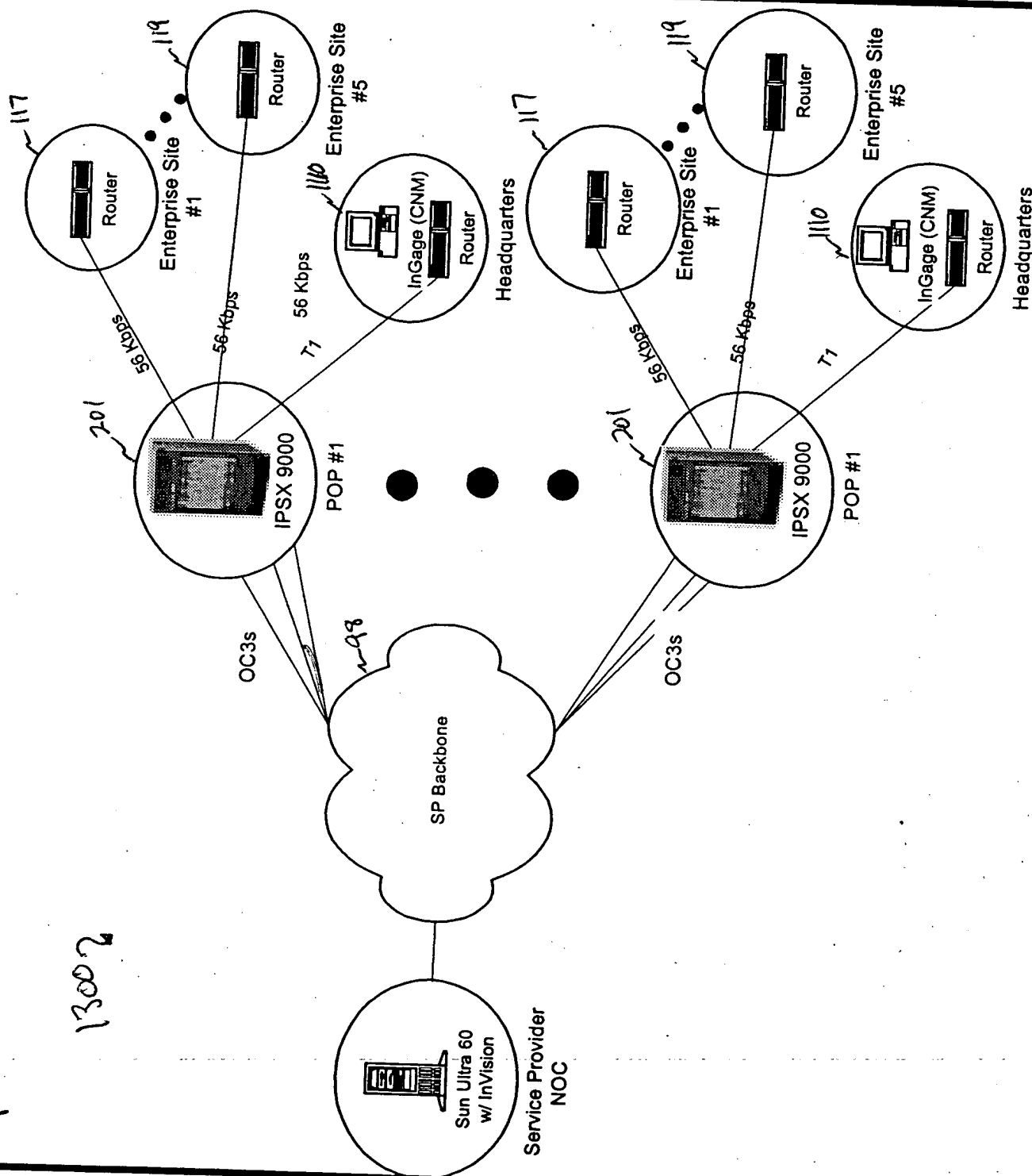
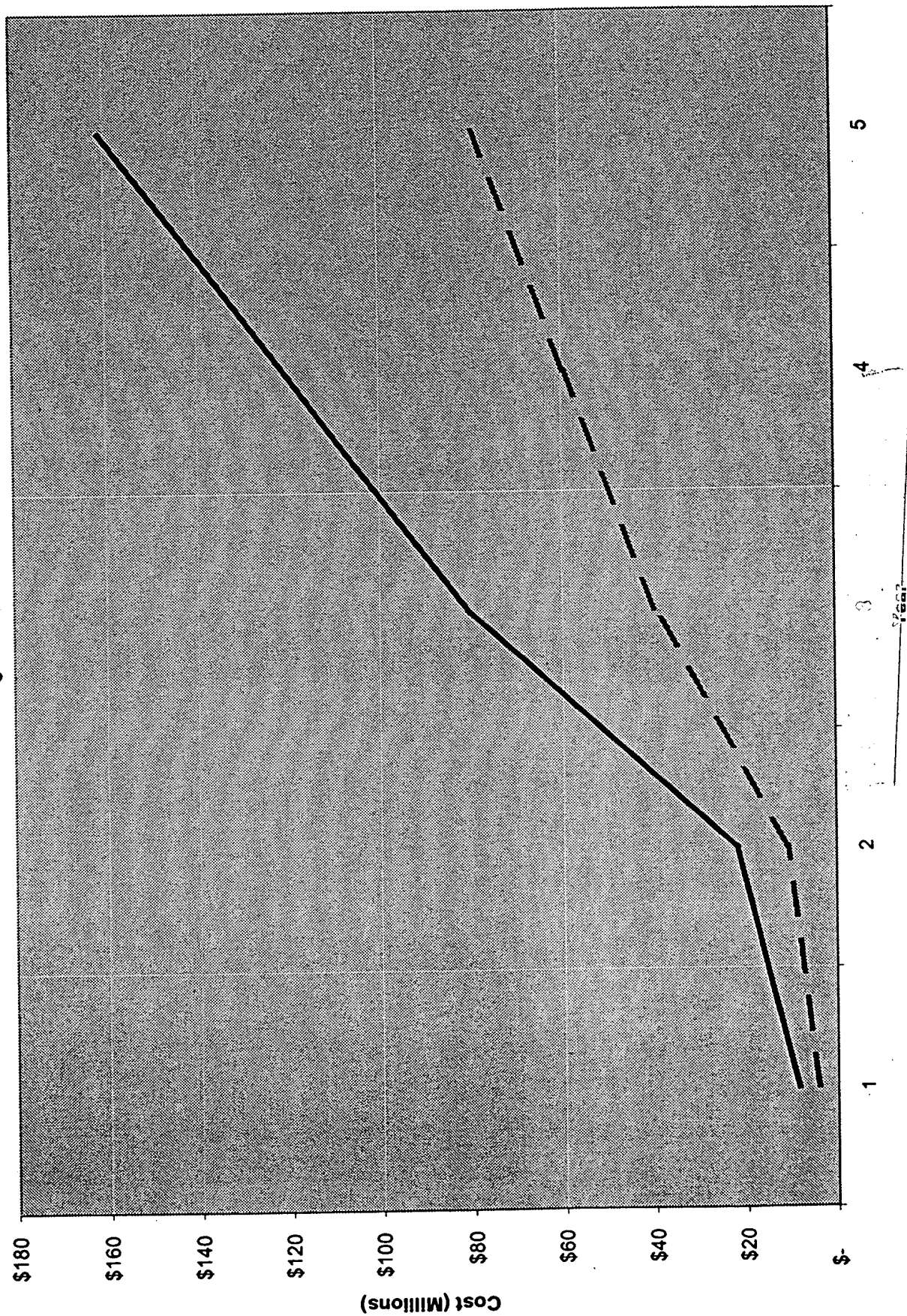


FIG. 14

14003



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